

| | | |
|--|--|-------------------|
| INFORMATION DISCLOSURE CITATION PTO-1449 | ATTY. DOCKET NO. A-68359-1/RMA | SERIAL NO. |
| | APPLICANT Maloney, et al. | |
| | FILING DATE | GROUP |

| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|------------|-----------|-------------------|-------|----------|-------------|
| EXAMINER'S INITIALS | PATENT NO. | DATE | NAME | CLASS | SUBCLASS | FILING DATE |
| ue | 3,579,916 | 25 May 71 | Boetteber | 51 | 131 | 11/15/68 |
| | 3,631,634 | 4 Jan 72 | Weber | 51 | 131 | 1/26/70 |
| | 3,841,028 | 15 Oct 74 | Katzke | 51 | 125 | 8/24/72 |
| | 4,081,928 | 4 Apr 78 | Kinnebrew et al. | 51 | 131 | 8/17/76 |
| | 4,270,316 | 2 Jun 81 | Kr mer et al. | 51 | 283R | 2/23/79 |
| | 4,519,168 | 28 May 85 | Cesna | 51 | 216LP | 12/5/83 |
| | 4,680,893 | 21 Jul 87 | Cronkhite et al. | 51 | 5R | 9/23/85 |
| | 4,918,870 | 24 Apr 90 | Torbert et al. | 51 | 131.3 | 5/16/86 |
| | 4,954,142 | 4 Sep 90 | Carr et al. | 51 | 309 | 3/7/89 |
| | 5,205,082 | 27 Apr 93 | Shendon et al. | 51 | 283R | 12/20/91 |
| | 5,212,910 | 25 May 93 | Breivogel, et al. | 51 | 398 | 7/9/91 |
| | 5,216,843 | 8 Jun 93 | Breivogel, et al. | 51 | 131.1 | 9/24/92 |
| | 5,443,416 | 22 Aug 95 | Volodarsky et al. | 451 | 388 | 9/9/93 |
| | 5,527,209 | 18 Jun 96 | Volodarsky et al. | 451 | 388 | 5/24/95 |
| | 5,547,417 | 20 Aug 96 | Breivogel, et al. | 451 | 58 | 3/21/94 |
| | 5,554,064 | 10 Sep 96 | Breivogel, et al. | 451 | 41 | 8/6/93 |
| | 5,582,534 | 10 Dec 96 | Shendon et al. | 451 | 41 | 12/27/93 |
| | 5,584,751 | 17 Dec 96 | Kobayashi et al. | 451 | 288 | 2/27/96 |
| | 5,624,299 | 29 Apr 97 | Shendon | 451 | 28 | 5/1/95 |
| | 5,635,083 | 3 Jun 97 | Breivogel, et al. | 216 | 88 | 6/6/95 |
| | 5,643,053 | 1 Jul 97 | Shendon | 451 | 28 | 3/2/94 |
| | 5,681,215 | 28 Oct 97 | Sherwood et al. | 451 | 388 | 10/27/95 |
| ue | 5,738,574 | 14 Apr 98 | Tolles, et al. | 451 | 288 | 10/27/95 |

| | | | | | | |
|----|-----------|-----------|------------------|-----|-----|---------|
| TR | 5,775,983 | 7 Jul 98 | Shendon et al. | 451 | 444 | 5/1/95 |
| I | 5,584,751 | 17 Dec 96 | Kobayashi et al. | 451 | 288 | 2/27/96 |
| | 5,635,083 | 3 June 97 | Breivogel et al. | 216 | 88 | 6/6/95 |
| TR | 5,980,361 | 9 Nov 99 | Muller et al. | 451 | 9 | 12/9/97 |

FOREIGN PATENT DOCUMENTS

| EXAMINER'S INITIALS | PATENT NO. | DATE | COUNTRY | CLASS | SUBCLASS | Translation | |
|------------------------|----------------|------------|---------|-------|----------|-------------|----|
| | | | | | | Yes | No |
| TR | 0 383 910 A1 | 8/29/90 | EP | | | X | |
| | 0 747 167 A2 | 12/11/96 | EP | | | X | |
| | 2 058 618 A | 4/15/81 | UK | | | X | |
| | 2 079 532 A | 1/20/82 | UK | | | X | |
| | 59-19671 | 2/1/84 | JP | | | X | |
| | 60-129522 | 3/10/87 | JP | | | X | |
| | 61-52967 | 3/7/88 | JP | | | X | |
| | 50-133596 | 10/22/75 | JP | | | X | |
| | 55-157473 | 12/8/80 | JP | | | X | |
| | 56-146667 | 11/14/81 | JP | | | X | |
| | 62-162460 | 7/18/87 | JP | | | X | |
| | 1-92064 | 1989 | JP | | | | X |
| | EP 0 841 123 A | 13 May 98 | EP | | | | |
| | EP 0 847 835 A | 17 June 98 | EP | | | | |
| | EP 0 881 039 A | 2 Dec 98 | EP | | | | |
| | EP 0 747 167 A | 11 Dec 96 | EP | | | | |
| TR | 1-216768 | 1989 | JP | | | | X |

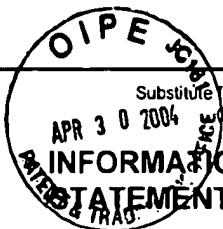
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

| | |
|--|---|
| | Tokei, "Precision one-side finish work method" (Abstracts of Japan, vol. 7, no. 271, 12/3/83) |
| | Hitachi, "Lapping apparatus" (Abstracts of Japan, vol. 7, no. 102, 4/30/83) |

EXAMINER

DATE CONSIDERED

[Signature] 11/29/04



| | | | | | |
|---|---|----|--------------------------|------------------------|-------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | | Complete if Known | | |
| | | | Application Number | 10/027,935 | |
| | | | Filing Date | December 21, 2001 | |
| | | | First Named Inventor | Gerard S. MALONEY | |
| | | | Art Unit | 3724 | |
| | | | Examiner Name | Timothy V. Eley | |
| Sheet | 2 | of | 4 | Attorney Docket Number | A-68359-1/RMA/JML (469113-41) |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|-----------------------|---|-----------------------------|---|---|
| Examiner Initials* | Cite No. ¹ | U.S. Patent Document Number-Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| TR | A35 | 5,980,361 | 11-09-1999 | Müller et al. | |
| | A36 | 6,019,670 | 02-01-2000 | Cheng et al. | |
| | A37 | 6,024,630 | 02-15-2000 | Shendon et al. | |
| | A38 | 6,033,292 | 03-07-2000 | Inaba | |
| | A39 | 6,077,151 | 06-20-2000 | Black et al. | |
| | A40 | 6,093,089 | 07-25-2000 | Chen et al. | |
| | A41 | 6,093,091 | 07-25-2000 | Keller | |
| | A42 | 6,110,025 | 08-29-2000 | Williams et al. | |
| | A43 | 6,113,480 | 09-05-2000 | Hu et al. | |
| | A44 | 6,116,992 | 09-12-2000 | Prince | |
| TR | A45 * | 6,231,428 B1 | 05-15-2001 | Maloney et al. | |
| | A46 * | 6,309,290 B1 | 10-30-2001 | Wang et al. | |
| | A47 * | 6,368,189 B1 | 04-09-2002 | Maloney et al. | |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|----------|---|-----------------------------|---|---|----------------|
| Examiner Initials* | Cite No. | Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| TR | B1 | EP 0 383 910 A1 | 08-29-1990 | | | |
| | B2 | EP 0 548 846 A1 | 06-30-1993 | | | |
| | B3 | EP 0 747 167 A2, A3 | 12-11-1996 | | | |
| | B4 | EP 0 791 431 A1 | 08-27-1997 | | | |
| | B5 | EP 0 881 039 A2 | 12-02-1998 | | | |
| | B6 | EP 2 307 342 A | 05-21-1997 | | | |
| | B7 | UK 2 058 618 A | 04-15-1981 | | | |
| | B8 | UK 2 315 694 A | 02-11-1998 | | | |
| | B9 | UK GB205818 A | 04-15-1991 | | | |
| | B10 | UK GB2079532 A | 01-20-1982 | | | |
| TR | B11 | JP 59-19671 | 02-01-1984 | | | |
| | B12 | JP 60-129522 | 03-10-1987 | | | |

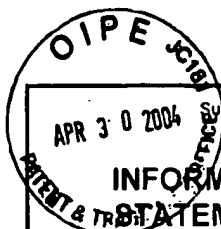
| | | | |
|--------------------|------------------------|-----------------|----------|
| Examiner Signature | <i>Timothy V. Eley</i> | Date Considered | 11/29/04 |
|--------------------|------------------------|-----------------|----------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English Language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the complete application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and selection option 2



| | | | | | |
|---|---|----|--------------------------|------------------------|-------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | | Complete if Known | | |
| | | | Application Number | 10/027,935 | |
| | | | Filing Date | December 21, 2001 | |
| | | | First Named Inventor | Gerard S. MALONEY | |
| | | | Art Unit | 3724 | |
| | | | Examiner Name | Timothy V. Eley | |
| Sheet | 1 | of | 4 | Attorney Docket Number | A-68359-1/RMA/JML (469113-41) |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|-----------------------|---|-----------------------------|---|---|
| Examiner Initials* | Cite No. ¹ | U.S. Patent Document Number-Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| TR | A1 | 3,579,916 | 05-25-1971 | Boetteber | |
| | A2 | 3,631,634 | 01-04-1972 | Weber | |
| | A3 | 3,841,028 | 10-15-1974 | Katzke | |
| | A4 | 4,081,928 | 04-04-1978 | Kinnebrew et al. | |
| | A5 | 4,270,316 | 06-02-1981 | Krämer et al. | |
| | A6 | 4,519,168 | 05-28-1985 | Cesna | |
| | A7 | 4,680,893 | 07-21-1987 | Cronkhite et al. | |
| | A8 | 4,918,869 | 04-24-1990 | Kitta | |
| | A9 | 4,918,870 | 04-24-1990 | Torbert et al. | |
| | A10 | 4,954,142 | 09-04-1990 | Carr et al. | |
| | A11 | 5,205,082 | 04-27-1993 | Shendon et al. | |
| | A12 | 5,212,910 | 05-25-1993 | Breivogel et al. | |
| | A13 | 5,216,843 | 06-08-1993 | Breivogel et al. | |
| | A14 | 5,443,416 | 08-22-1995 | Volodarsky et al. | |
| | A15 | 5,527,209 | 06-18-1996 | Volodarsky et al. | |
| | A16 | 5,547,417 | 08-20-1996 | Breivogel et al. | |
| | A17 | 5,554,064 | 09-10-1996 | Breivogel et al. | |
| | A18 | 5,651,724 | 07-29-1997 | Kimura et al. | |
| | A19 | 5,679,065 | 10-21-1997 | Henderson | |
| | A20 | 5,582,534 | 12-10-1996 | Shendon et al. | |
| | A21 | 5,554,751 | 12-17-1996 | Kobayashi et al. | |
| | A22 | 5,582,534 | 12-10-1996 | Shendon et al. | |
| | A23 | 5,584,751 | 12-17-1996 | Kobayashi et al. | |
| | A24 | 5,624,299 | 04-29-1997 | Shendon | |
| | A25 | 5,635,083 | 06-03-1997 | Breivogel et al. | |
| | A26 | 5,643,053 | 07-01-1997 | Shendon et al. | |
| | A27 | 5,651,724 | 07-29-1997 | Kimura et al. | |
| | A28 | 5,681,215 | 10-28-1997 | Sherwood et al. | |
| | A29 | 5,738,574 | 04-14-1998 | Tolles et al. | |
| | A30 | 5,775,983 | 07-07-1998 | Shendon et al. | |
| | A31 | 5,803,799 | 09-08-1998 | Volodarsky et al. | |
| | A32 | 5,820,448 | 10-13-1998 | Shamouillan et al. | |
| | A33 | 5,857,899 | 01-12-1999 | Volodarsky | |
| TR | A34 | 5,941,758 | 08-24-1999 | Mack | |

| | | | |
|--------------------|------------------------|-----------------|----------|
| Examiner Signature | <i>Timothy V. Eley</i> | Date Considered | 11/29/04 |
|--------------------|------------------------|-----------------|----------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English Language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the complete application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and selection option 2